Receipt
Patent
Rttorney's Docket No. 0023-0014

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

)

hon-full - . (up

In re Patent Application of

Stefan DYCKERHOFF et al.

Stefan DYCKERHOFF et al.

Plied: January 2, 2001

SYSTEMS AND METHODS FOR ALLOCATING BANDWIDTH FOR PROCESSING OF PACKETS

Group Art Unit: 2661

Examiner: Unassigned

RECEIVED

AUG 1 5 2001

Technology Center of

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents and Trademarks Washington, D.C. 20231

Sir:

We are forwarding herewith a copy of a Filing Receipt for the above-identified patent application. As indicated in red ink on the attached copy, there is an error in the Filing Receipt. Also attached herewith is a copy of page 1 of the specification and Request and Certification Under 35 U.S.C. 122(b)(2)(B)(i) and a copy of the stamped postcard indicating receipt of these documents at the PTO on January 2, 2001.

Please correct the following: In the Domestic Priority data as claimed by applicant section, please insert --This application is a Continuation-In-Part of U.S. Patent Application Serial No. 09/534,838, filed March 24, 2000.--

In the Projected Publication Date section, please delete "07/04/2002", and insert in its place --Request for Non-Publication Acknowledged--.

Since the errors were made on the part of the Patent Office, no fee is required.

☐ Since the errors were made on the part of the undersigned, ☐ a check in the amount \$25.00 is enclosed; or ☐ charge \$25.00 to deposit account 50-1070.

It is respectfully requested that a corrected Filing Receipt be issued as soon as possible.

26615

26615

PAIENI IRAIEMARROFFICE

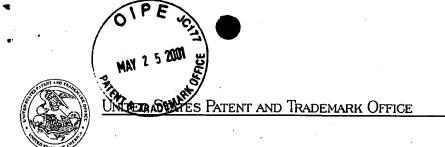
Respectfully submitted,

HARRITY & SNYDER, L.L.P.

By:

Paul A. Harrity Reg. No. 39,574

11240 Waples Mill Road Suite 300 Fairfax, Virginia 22030 (571) 432-0800 Date: May 25, 2001



COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 2023I
WWW.USDIO.GOV

 APPLICATION NUMBER
 FILING DATE
 GRP ART UNIT
 FIL FEE REC'D
 ATTY.DOCKET.NO
 DRAWINGS
 TOT CLAIMS
 IND CLAIMS

 09/751,454
 01/02/2001
 2661
 2276
 0023-0014
 16
 82
 7

26615 HARRITY & SNYDER, LLP 11240 WAPLES MILL ROAD SUITE 300 FAIRFAX, VA 22030

Date Mailed: 05/21/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Stefan Dyckerhoff, Palo Alto, CA; Pankaj Patel, Cupertino, CA; Pradeep Sindhu, Los Altos Hills, CA; Ashok Krishnamurthi, San Jose, CA; Hann-Hwan Ju, San Jose, CA; Ramalingam K. Anand, San Jose, CA; Dennis C. Ferguson, Mountain View, CA; Chang-Hong Wu, Cupertino, CA; RECEIVED

AUG 1 5 2001

Technology Center 2600

Domestic Priority data as claimed by applicant -- This application is a Continuation-In-Part of U.S. Patent Application Serial No. 09/534, 838, filed March 24, 2000. --

Foreign Applications

If Required, Foreign Filing License Granted 02/15/2001

Projected Publication Date: 07/04/2002 -- Request for Non-Publication Acknowledged --

Non-Publication Request: Yes

Early Publication Request: No

Title

Systems and methods for allocating bandwidth for processing of packets

Preliminary Class

370

Data entry by : TSIGE, WUBALEM

Team : OIPE

Date: 05/21/2001



LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

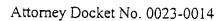
No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 500 characters (letters and spaces combined).
- The docket number allows a maximum of 25 characters.
- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
- The title is recorded in sentence case.

Any corrections that may need to be done to your Filing Receipt should be directed to:

Assistant Commissioner for Patents Office of Initial Patent Examination Customer Service Center Washington, DC 20231





SYSTEMS AND METHODS FOR ALLOCATING BANDWIDTH FOR PROCESSING OF PACKETS

RECEIVED
AUG 1 5 2001

RELATED APPLICATION

Technology Center 2600

This application claims priority under 35 U.S.C. § 120 as a continuation-in-part of U.S.

Patent Application, Serial No. 09/534,838, filed March 24, 2000, which is hereby incorporated by reference.

BACKGROUND OF THE INVENTION

A. Field of the Invention

10

15

20

The present invention relates generally to routing systems and, more particularly, to systems and methods for allocating bandwidth for the processing of packets within a router.

B. <u>Description of Related Art</u>

Conventional networks typically include routers that route packets from one or more sources to one or more destinations. A packet is a format in which data of variable size can be transmitted through a network. A router is a switching device that receives packets containing data or control information at input ports and, based on destination or other information included in the packets, routes the packets through output ports to the destinations or intermediary destinations. Conventional routers determine the proper output port for a particular packet by evaluating header information included in the packet.

Conventional routers include buffers to support a particular bandwidth. If the input bandwidth exceeds the bandwidth of the router, the router may drop data or packets. The amount of input bandwidth may depend on a number factors, including the input line rate, the speed of the output determination process, and the blocking characteristics of the switching mechanisms





IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	
Stefan Dyckerhoff et al.	Group Art Unit: Unassigned
Application No.: Unassigned)	Examiner: Unassigned
Filed: January 2, 2001	
For: SYSTEMS AND METHODS FOR) ALLOCATING BANDWIDTH FOR)	RECEIVED
PROCESSING OF PACKETS)	AUG 1 5 2001
	Technology Center 2600

REQUEST FOR NON-PUBLICATION OF APPLICATION AND CERTIFICATION UNDER 35 U.S.C. §122 (b)(2)(B)(i)

Commissioner of Patent and Trademarks Washington, D.C. 20231

Sir:

As an authorized agent of the above-identified applicant(s), the undersigned attorney hereby certifies that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. §122(b).

I further understand that this non-publication request may be rescinded at any time and if so, the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

Request for Non-Publication of Application Application Serial No. Unassigned Attorney's Docket No. 0023-0014

Page 2

I further understand that if applicant(s) subsequently file(s) an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the United States Patent and Trademark Office must be notified of such filing within forty-five (45) days after the date of the filing of such foreign or international application. I also understand that failure by applicant(s) to so notify the Patent and Trademark Office will result in abandonment of this application.

26615

2001) Paiedi iralemarkoffice Respectfully submitted,

HARRITY & SNYDER, L.L.P.

Ву

Paul A. Harrity Reg. No. 39,574

11240 Waples Mill Road Suite 300 Fairfax, Virginia 22030 (571) 432-0800

Date: January 2, 2001

Inventor(s): Stefan Dyckerhoff et al.

Appln. No.: Unassigned

Docket No.: 0023-0014

Working Atty: PAH

Date: January 2, 2001

Title: SYSTEMS AND METHODS FOR ALLOCATING BANDWIDTH FOR PROCESSING OF PACKETS

The following was/were received in the U.S. Patent and Trademark Office on the date stamped hereon:					
Utility Patent Application	Executed Declaration/Power of Attorney	☐ Check for \$ amount is enclose			
☐ Design Patent	☐ Unexecuted Declaration/Power of Attorney	Check for \$ amount is enclose			
Continuing Prosecution App. Req.	Request for Non-Publication of Application	☐ Charge \$ amount to Deposit			
Provisional Application Cover Sheet	Assignment/Assignment Recordation (PTO-1595)	Account No. 50 1070			
Provisional Application	☐ Claim for Convention Priority w/# cert. copy(ies)				
Continuation/Divisional App. (Rule)	Preliminary Amendment				
1.53(b)) with copy of application	☐ Information Disclosure Statement Transmittal				
	☐ Information Disclosure Statement w/# reference(s)	TRADO			
APPLICATION INCLUDING:	☐ Information Disclosure Citation (PTO-1449)	RIENTS			
Specification (45 pages)	☐ Petition for # Month Extension of Time				
Claims (82 claims)	☐ Constructive Petition for Extension of Time				
drawings (Fig(s). 1-17, 16 sheet(s))		26615			
		FATHNT TRACEMARK CIFFICE			

RECEIVED

AUG 1 5 2001

Technology Center 2600



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER, FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231
www.uspto.gov



TO FEATES UP ASE

Sib Data Sheet									
SERIAL NUMBE 09/751,454	RULE	CLASS 370	GROUP ART UNIT 2662		ATTORNEY DOCKET NO. 0023-0014				
Stefan Dyckerhoff, Palo Alto, CA; Pankaj Patel, Cupertino, CA; Pradeep Sindhu, Los Altos Hills, CA; Ashok Krishnamurthi, San Jose, CA; Hann-Hwan Ju, San Jose, CA; Ramalingam K. Anand, San Jose, CA; Dennis C. Ferguson, Mountain View, CA; Chang-Hong Wu, Cupertino, CA; **CONTINUING DATA **********************************									
Foreign Priority claimed 35 USC 119 (a-d) condi met Verified and Acknowledged	tions yes no Met a	state or country CA	SHEETS DRAWING 16	TOT CLA	IMS	INDEPENDENT CLAIMS 7			
ADDRESS 26615									
TITLE Systems and methods for allocating bandwidth for processing of packets									
FILING FEE RECEIVED	FEE FEES: Authority has been given in Paper VED No to charge/credit DEPOSIT ACCOUNT			All Fees 1.16 Fees (Filing) 1.17 Fees (Processing Ext. of time) 1.18 Fees (Issue) Other Credit					